

## APPENDIX H

### VERNAL POOL AND ASSOCIATED PLANT SPECIES WITHIN THE PROJECT AREA

**Oroville Facilities Relicensing**  
**Plant species found associated with vernal pools and vernal swales**

FAMILY <i>Scientific name</i>	Common Name	Origin	vernal pool	swale
<b>FERNS AND FERN ALLIES</b>				
MARSILIACEAE				
<i>Marsilea vestita</i> ssp. <i>vestita</i>	Hairy pepperwort	native	x	
<i>Pilularia americana</i>	American pillwort	native	x	
<b>FLOWERING PLANTS - DICOTS</b>				
APIACEAE				
<i>Eryngium castrense</i>	Coyote-thistle	native	x	x
ASCLEPIADACEAE				
<i>Asclepias fascicularis</i>	Narrow-leaved milkweed	native	x	
ASTERACEAE				
<i>Blennosperma nanum</i> var. <i>nanum</i>	Yellow-carpet	native	x	
<i>Filago californica</i>	California filago	native		
<i>Filago gallica</i>	Narrow-leaved filago	non-native		
<i>Hemizonia fitchii</i>	Fitch's spikeweed	native		
<i>Hemizonia pungens</i> ssp. <i>pungens</i>	Common spikeweed	native		
<i>Hesperevax acaulis</i> var. <i>acaulis</i>	Dwarf evax	native		
<i>Hesperevax acaulis</i> var. <i>robustior</i>	Robust evax	native		
<i>Heterotheca oregonia</i> var. <i>compacta</i>	Goldenaster	native		
<i>Hypochaeris glabra</i>	Smooth cat's-ear	non-native		x
<i>Hypochaeris radicata</i>	Rough cat's ear	non-native	x	
<i>Lactuca serriola</i>	Prickly lettuce	non-native		
<i>Layia fremontii</i>	Fremont's tidytips	native	x	
<i>Lasthenia californica</i>	California goldfields	native		
<i>Lasthenia fremontii</i>	Fremont's goldfields	native		
<i>Lasthenia glaberrima</i>	Smooth goldfields	native		
<i>Lasthenia platycarpa</i>	Alkali goldfields	native		
<i>Lessingia nana</i>	Dwarf lessingia	native		
<i>Lessingia nemataclada</i>	Slender-stemmed lessingia	native		
<i>Lessingia virgata</i>	Wand lessingia	native		
<i>Micropus californicus</i> var. <i>californicus</i>	Slender cottonweed	native		
<i>Psilocarphus brevissimus</i> var. <i>brevissimus</i>	Dwarf woolly-marbles	native	x	
<i>Psilocarphus oregonus</i>	Oregon woolly-marbles	native	x	
<i>Psilocarphus tenellus</i> var. <i>tenellus</i>	Slender woolly-marbles	native	x	
<i>Xanthium spinosum</i>	Spiny cocklebur	native		
<i>Xanthium strumarium</i>	Cocklebur	native		

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	<b>FAMILY</b> <b>Scientific name</b>	Common Name	Origin	vernal pool	swale
	BORAGINACEAE				
	<i>Plagiobothrys austinae</i>	Austin's popcorn flower	native	x	
	<i>Plagiobothrys bracteatus</i>	Bracted popcorn-flower	native	x	
	<i>Plagiobothrys fulvus</i>	Fulvous popcorn-flower	native	x	
	<i>Plagiobothrys greenei</i>	Greene's popcorn-flower	native	x	
	<i>Plagiobothrys stipitatus var. micranthus</i>	Small-flowered stalked popcorn-flower	native	x	
	BRASSICACEAE				
	<i>Cardamine oligosperma</i>	Western bittercress	native		
	<i>Lepidium nitidum</i> var. <i>nitidum</i>	Shining peppergrass	native		
	<i>Lepidium strictum</i>	Upright peppergrass	native		
	CALLITRICHACEAE				
	<i>Callitrichia marginata</i>	Winged water-starwort	native	x	
	CAMPANULACEAE				
	<i>Downingia bella</i>	Hoover's downingia	native	x	
	<i>Downingia bicornuta</i> var. <i>bicornuta</i>	Double-horned downingia	native	x	
	<i>Downingia cuspidata</i>	Toothed downingia	native	x	
	<i>Downingia ornatissima</i> var. <i>ornatissima</i>	Ornate downingia	native	x	
	CARYOPHYLLACEAE				
	<i>Cerastium glomeratum</i>	Sticky mouse-eared chickweed	non-native		
	<i>Minuartia californica</i>	California sandwort	native		
	<i>Minuartia douglasii</i>	Douglas' sandwort	native	x	
	<i>Paronychia ahartii</i>	Ahart's nailwort	native	x	
	<i>Petrorhagia dubia</i>	Grass pink	non-native		
	<i>Sagina apetala</i>	Dwarf pearlwort	native	x	
	<i>Silene gallica</i>	Windmill pink	non-native		
	<i>Spergula arvensis</i> ssp. <i>arvensis</i>	Corn-spurry	non-native		
	<i>Spergularia bocconei</i>	Boccone's sandspurry	non-native		
	<i>Stellaria media</i>	Common chickweed	non-native		
	CHENOPODIACEAE				
	<i>Chenopodium album</i>	Lamb's-quarters	non-native		
	<i>Chenopodium ambrosioides</i> var. <i>ambrosioides</i>	Mexican tea	non-native		
	CRASSULACEAE				
	<i>Crassula aquatica</i>	Water pygmyweed	native	x	
	<i>Crassula connata</i>	Pygmyweed	native	x	
	<i>Parvisedum pumilum</i>	Dwarf-stonecrop	native		

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	<b>FAMILY</b> <b>Scientific name</b>	Common Name	Origin	vernal pool	swale
CUSCUTACEAE					
	<i>Cuscuta californica</i> var. <i>californica</i>	California dodder	native		
	<i>Cuscuta howelliana</i>	Boggs Lake dodder	native		
	<i>Cuscuta indecora</i> var. <i>indecora</i>	Dodder	native		
EUPHORBIACEAE					
	<i>Chamaesyce maculata</i>	Spotted spurge	non-native		
	<i>Chamaesyce ocellata</i> ssp. <i>ocellata</i>	Valley spurge	native		
	<i>Chamaesyce serpyllifolia</i> ssp. <i>serpyllifolia</i>	Thyme-leaved spurge	native		
	<i>Eremocarpus setigerus</i>	Turkey mullein	native		
FABACEAE					
	<i>Lotus corniculatus</i>	Bird-foot trefoil	non-native		
	<i>Lotus purshianus</i> var. <i>purshianus</i>	Spanish lotus	native		
	<i>Lotus strigosus</i>	Strigose lotus	native		
	<i>Lupinus bicolor</i>	Bicolored lupine	native		
	<i>Lupinus microcarpus</i> var. <i>densiflorus</i>	White-whorled lupine	native		
	<i>Lupinus microcarpus</i> var. <i>microcarpus</i>	Chick lupine	native		
	<i>Lupinus nanus</i>	Sky lupine	native		x
	<i>Lupinus pachylobus</i>	Big-podded lupine	native		
	<i>Lupinus stiversii</i>	Harlequin lupine	native		
	<i>Trifolium campestre</i>	Hop clover	non-native		
	<i>Trifolium depauperatum</i> var. <i>depauperatum</i>	Dwarf cowbag clover	native	x	x
	<i>Trifolium dubium</i>	Little hop clover	non-native	x	
	<i>Trifolium glomeratum</i>	Sessile-headed clover	non-native		
	<i>Trifolium subterraneum</i>	Subterranean clover	non-native	x	
	<i>Trifolium variegatum</i>	White-tipped clover	native	x	
GENTIANACEAE					
	<i>Centaurium muehlenbergii</i>	June centaury	native		
	<i>Cicendia quadrangularis</i>	Timwort	native	x	x
GERANIACEAE					
	<i>Erodium cicutarium</i>	Red-stemmed filaree	non-native		
	<i>Erodium botrys</i>	Long-beaked stork's-bill	non-native		
	<i>Erodium moschatum</i>	White-stemmed filaree	non-native		
	<i>Geranium dissectum</i>	Cut-leaved geranium	non-native		
	<i>Geranium pusillum</i>	Small geranium	non-native		
HYPERICACEAE					
	<i>Hypericum anagalloides</i>	Tinker's penny	native		

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	<b>FAMILY</b> <b>Scientific name</b>	Common Name	Origin	vernal pool	swale
	<i>Hypericum concinnum</i>	Goldwire	native		
	<i>Hypericum mutilum</i>	Small-flowered St. John's wort	non-native		
	<i>Hypericum perforatum</i>	Klamathweed	non-native		
	LAMIACEAE				
	<i>Pogogyne zizyphoroides</i>	Sacramento Valley pogogyne	native	x	
	<i>Prunella vulgaris var. lanceolata</i>	Mountain self-heal	native		
	LENTIBULARIACEAE				
	<i>Utricularia gibba</i>	Humped bladderwort	non-native		
	LIMNANTHACEAE				
	<i>Limnanthes alba ssp. alba</i>	White meadowfoam	native	x	x
	<i>Limnanthes douglasii ssp. rosea</i>	Rosy meadowfoam	native		
	LYTHRACEAE				
	<i>Ammania coccinea</i>	Valley redstem	native		
	<i>Ammania robusta</i>	Robust redstem	native		
	<i>Lythrum hyssopifolium</i>	Hyssop loosestrife	non-native	x	x
	<i>Rotala ramosior</i>	Lowland toothcup	native		
	MALVACEAE				
	<i>Sidalcea calycosa ssp. calycosa</i>	Annual checkerbloom	native	x	
	<i>Sidalcea diplocypha</i>	Fringed checkerbloom	native		
	<i>Sidalcea hirsuta</i>	Hairy checkerbloom	native	x	
	MOLLUGINACEAE				
	<i>Mollugo verticillata</i>	Indian chickweed	non-native	x	
	ONAGRACEAE				
	<i>Epilobium brachycarpum</i>	Tall annual willowherb	native		
	<i>Epilobium canum ssp. latifolium</i>	California fuchsia	native		
	<i>Epilobium cleistogamum</i>	Cleistogamous spike-primrose	native	x	
	<i>Epilobium densiflorum</i>	Dense-flowered spike-primrose	native	x	
	<i>Epilobium pygmaeum</i>	Smooth spike-primrose	native	x	
	<i>Epilobium sp.</i>	Primrose	native		
	PLANTAGINACEAE				
	<i>Plantago coronopus</i>	Cut-leaved plantain	non-native		
	<i>Plantago elongata</i>	Elongate plantain	native	x	
	<i>Plantago erecta</i>	Erect plantain	native	x	
	POLEMONIACEAE				
	<i>Linanthus bicolor</i>	Bicolored linanthus	native		
	<i>Navarretia intertexta ssp. intertexta</i>	Needle-leaved navarretia	native		

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	<b>FAMILY</b> <b>Scientific name</b>	Common Name	Origin	vernal pool	swale
	<b><i>Navarretia leucocephala</i> ssp. <i>leucocephala</i></b>	White-flowered navarretia	native	x	
	<b><i>Navarretia pubescens</i></b>	Downy navarretia	native		
	<b><i>Navarretia tagetina</i></b>	Marigold navarretia	native		
	<b><i>Navarretia viscidula</i></b>	Sticky navarretia	native		
	<b>POLYGONACEAE</b>				
	<b><i>Polygonum lapathifolium</i></b>	Willow weed	native		
	<b><i>Polygonum punctatum</i></b>	Dotted smartweed	native		
	<b>PORTULACACEAE</b>				
	<b><i>Callindrinia ciliata</i></b>	Red maids	native		x
	<b>PRIMULACEAE</b>				
	<b><i>Centunculus minimus</i></b>	Chaffweed	native		
	<b>RANUNCULACEAE</b>				
	<b><i>Myosorus minimus</i></b>	Common mousetail	native	x	
	<b><i>Ranunculus aquatilis</i> var. <i>aquatilis</i></b>	Broad-leaved water buttercup	native		x
	<b><i>Ranunculus bonariensis</i> var. <i>trisepalus</i></b>	Three-sepaled buttercup	native		x
	<b><i>Ranunculus muricatus</i></b>	Prickle-seeded buttercup	non-native		
	<b>ROSACEAE</b>				
	<b><i>Aphanes occidentalis</i></b>	Western lady's mantle	native		
	<b>RUBIACEAE</b>				
	<b><i>Crucianella angustifolia</i></b>	Crosswort	non-native		
	<b><i>Sherardia arvensis</i></b>	Field madder	non-native		
	<b>SALICACEAE</b>				
	<b><i>Populus fremontii</i> ssp. <i>fremontii</i></b>	Fremont's cottonwood	native		
	<b><i>Salix exigua</i></b>	Sandbar willow	native		
	<b><i>Salix gooddingii</i></b>	Goodding's black willow	native		
	<b><i>Salix laevigata</i></b>	Red willow	native		
	<b><i>Salix lasiolepis</i></b>	Arroyo willow	native		
	<b><i>Salix melanopsis</i></b>	Dusky willow	native		
	<b>SCROPHULARIACEAE</b>				
	<b><i>Castilleja attenuata</i></b>	Valley-tassels	native		
	<b><i>Castilleja affinis</i> var. <i>affinis</i></b>	Indian-paintbrush	native		
	<b><i>Castilleja campestris</i></b>	Field owl-clover	native		
	<b><i>Gratiola ebracteata</i></b>	Bractless hedge-hyssop	native	x	
	<b><i>Limosella acaulis</i></b>	Narrow-leaved mudwort	native		
	<b><i>Lindernia dubia</i> var. <i>anagallidea</i></b>	False pimpernel	native		

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	<b>FAMILY</b> <b>Scientific name</b>	Common Name	Origin	<b>vernal pool</b>	<b>swale</b>
	<i>Mimulus guttatus</i>	Seep monkey-flower	native		
	<i>Mimulus tricolor</i>	Tri-colored monkey-flower	native		
	<i>Parentucellia viscosa</i>	Yellow parentuchellia	non-native		
	<i>Triphysaria eriantha ssp. eriantha</i>	Johnnytuck	native	x	
	<i>Tryphysaria pusilla</i>	Dwarf owl-clover	native		
	<i>Veronica americana</i>	American brooklime	native		
	<i>Veronica anagallis-aquatica</i>	Great water speedwell	non-native		
	<i>Veronica peregrina ssp. halapensis</i>	Purslane speedwell	native		
	<b>FLOWERING PLANTS - MONOCOTS</b>				
	CYPERACEAE				
	<i>Carex barbarae</i>	Santa Barbara sedge	native		
	<i>Carex densa</i>	Dense sedge	native		
	<i>Cyperus eragrostis</i>	Tall cyperus	native		
	<i>Cyperus erythrorhizos</i>	Red-rooted cyperus	native		
	<i>Eleocharis acicularis</i> var. <i>acicularis</i>	Needle spike-rush	native		
	<i>Eleocharis atropurpurea</i>	Purple spike-rush	native		
	<i>Eleocharis macrostachya</i>	Pale spike-rush	native	x	
	<i>Eleocharis obtusa</i> var. <i>engelmannii</i>	Engelmann's spike-rush	native		
	<i>Eleocharis pachycarpa</i>	Thick-fruited spike-rush	non-native		
	JUNCACEAE				
	<i>Juncus acuminatus</i>	Sharp-fruited rush	native		
	<i>Juncus balticus</i> var. <i>balticus</i>	Baltic rush	native		
	<i>Juncus bufonius</i> var. <i>bufonius</i>	Common toadrush	native	x	
	<i>Juncus capitatus</i>	Leafy-bracted dwarf rush	non-native	x	
	<i>Juncus diffusissimus</i>	Diffuse rush	non-native		
	<i>Juncus effusus</i> var. <i>exiguus</i>	Short rush	native	x	
	<i>Juncus tenuis</i>	Slender rush	native		
	<i>Juncus uncialis</i>	Inch-high rush	native	x	
	<i>Juncus xiphiooides</i>	Iris-leaved rush	native	x	
	POACEAE				
	<i>Agrostis exarata</i>	Spiked bentgrass	native		
	<i>Aira caryophyllea</i>	Silver European hairgrass	non-native	x	
	<i>Alopecurus saccatus</i>	Vernal pool foxtail	native		
	<i>Aristida oligantha</i>	Oldfield three-awn	native		
	<i>Briza minor</i>	Lesser quaking grass	non-native		
	<i>Bromus arenarius</i>	Australian brome	non-native		
	<i>Bromus catharticus</i>	Rescuegrass	non-native		
	<i>Bromus hordeaceus</i>	Softchess	non-native		
	<i>Crypsis vaginiflora</i>	African prickleglass	non-native	x	

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	<b>FAMILY</b> <b>Scientific name</b>	Common Name	Origin	vernal pool	swale
	<i>Cynodon dactylon</i>	Bermuda grass	non-native		
	<i>Cynosurus echinatus</i>	Hedgehog dogtail	non-native		
	<b><i>Deschampsia danthonioides</i></b>	Annual hairgrass	native		
	<i>Digitaria ischaemum</i>	Smooth crabgrass	non-native		
	<i>Digitaria sanguinalis</i>	Hairy crabgrass	non-native		
	<b><i>Distichlis spicata</i></b>	Saltgrass	native		
	<b><i>Eragrostis pectinacea</i> var. <i>pectinacea</i></b>	Purple lovegrass	native		
	<i>Gastridium ventricosum</i>	Nitgrass	non-native		
	<b><i>Hordeum brachyantherum</i></b>	Meadow barley	native		
	<b><i>Hordeum jubatum</i></b>	Foxtail barley	native		
	<i>Hordeum marinum</i> ssp. <i>gussoneanum</i>	Mediterranean barley	non-native		
	<i>Hordeum murinum</i> ssp. <i>leporinum</i>	Hare wall barley	non-native		
	<i>Leersia oryzoides</i>	Rice cutgrass	non-native		
	<b><i>Leymus triticoides</i></b>	Alkali ryegrass	native		
	<i>Lolium multiflorum</i>	Italian ryegrass	non-native		x
	<b><i>Panicum acuminatum</i> var. <i>lindheimeri</i></b>	Redtop panicgrass	native		
	<b><i>Panicum capillare</i></b>	Witchgrass	native		
	<i>Panicum dichotomiflorum</i>	Smooth witchgrass	non-native		
	<i>Paspalum dilatatum</i>	Dallisgrass	non-native		
	<i>Phalaris aquatica</i>	Harding-grass	non-native		
	<i>Phalaris caroliniana</i>	Carolina canarygrass	non-native		
	<i>Phalaris minor</i>	Lesser canarygrass	non-native		
	<i>Poa annua</i>	Annual bluegrass	non-native		
	<b><i>Poa tenerima</i></b>	Delicate bluegrass	native		
	<i>Polypogon australis</i>	Southern beardgrass	non-native		
	<i>Polypogon maritimus</i>	Mediterranean beardgrass	non-native		
	<i>Polypogon monspeliensis</i>	Annual beardgrass	non-native		
	<i>Setaria viridis</i>	Green bristlegrass	non-native		
	<i>Taeniatherum caput-medusae</i>	Medusahead	non-native	x	
	<b><i>Vulpia microstachys</i> var. <i>ciliata</i></b>	Fringed fescue	native		
	<i>Vulpia myuros</i> var. <i>myuros</i>	Rattail fescue	non-native		